Building Site Development

| Map symbol and soil name | Pct. of map unit | streets | | Shallow excavati | ons | Lawns and landsca - - | aping |
|--------------------------|---|--|----------------------------------|---|-------------------------|---|---|
| | | Rating class and Val | | Rating class and limiting features | | Rating class and limiting features | |
| 6: Okoboji | 1 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Depth to saturated zone Frost action Low strength | 11.00 | saturated zone | 1.00 | Very limited Depth to saturated zone | 1 1.00 |
| 8B: Judson | 100 100 | Very limited Frost action Low strength Shrink-swell | | saturated zone | 0.16 | Not limited | |
| 8C: Judson | 100 | Very limited Frost action Low strength Shrink-swell | | saturated zone | 0.16 | Not limited | |
| 9B: Marshall | 100 | Very limited Frost action Low strength Shrink-swell | 1.00 1.00 0.50 | İ | | Not limited | |
| 9C2: Marshall | 100 | Frost action | 1.00 | İ | | Not limited | |
| 9D2: Marshall | 100 | ' - | | İ | | Somewhat limited Slope | 1 |

Building Site Development

| Map symbol and soil name | Pct. of map unit | streets | nd | Shallow excavati | ons | Lawns and landsca | aping |
|--------------------------|-------------------------------|--|-----------------------------|---|-------------------------|---|-----------|
| | | - | | Rating class and limiting features | | = | |
| 11B: | 1 | | 1 | | | | |
| | - 60 | Depth to saturated zone Frost action Low strength | 1.00 1.00 1.00 | Depth to saturated zone | 11.00 | Very limited Depth to saturated zone | 11.00 |
| Judson | - 30 | ĺ | | Somewhat limited Depth to | 0.16 | Not limited | |
| | | ' | 1.00 0.50 | • | | | |
| 24B: | i | | i | | | ' | i |
| Shelby | - 100 | Very limited Low strength | | Somewhat limited Depth to saturated zone | 0.16 | Not limited | |
| | | | 0.50 0.50 | • | | | |
| 24C2: Shelby | - 100 | Very limited Low strength | | Somewhat limited Depth to saturated zone | 0.16 | Not limited | |
| | | Shrink-swell Frost action | 0.50 | İ | | | |
| 24D2: Shelby | - 100 | • | 11.00 | Somewhat limited Slope Depth to | 0.63 0.16 | · - | 10.63 |
| | | Shrink-swell Frost action | 0.50 0.50 | • | | | |
| 24E2: Shelby | - 100 | Very limited Slope Low strength | 11.00 | Depth to | 1.00 | | 11.00 |
| | | • | 0.50 0.50 | • | | | |

Building Site Development

| Map symbol and soil name | Pct. of map unit | streets | d | Shallow excavati | ons. | Lawns and landsca | aping |
|--------------------------|-------------------------------|--|--|--|---------------|--|--------|
| | | Rating class and limiting features | | | | | |
| 24E3: Shelby | - 100 - 100 | Slope Low strength | 1.00 1.00 0.50 | Slope Depth to saturated zone | 1.00 0.16 | Very limited Slope | 1 1.00 |
| 24F2: Shelby | - 100 | Slope Low strength Shrink-swell | 1.00 1.00 | Slope Depth to saturated zone | 11.00 | Very limited Slope | 11.00 |
| 24F3: Shelby | - 100 | Slope Low strength Shrink-swell | 1.00 1.00 | Slope Depth to saturated zone | 11.00 | Very limited Slope | 11.00 |
| 51A: Vesser | | Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 0.50 0.19 | saturated zone Flooding I | 11.00 | Somewhat limited Flooding Depth to saturated zone | 0.60 |
| 51A+: Vesser | | Frost action Flooding Low strength Shrink-swell | 11.00 | saturated zone Flooding | 11.00 | Somewhat limited Flooding Depth to saturated zone | 0.60 |

Building Site Development

| Map symbol and soil name | Pct. of map unit | streets | d | Shallow excavati | ons | Lawns and landsca | aping |
|--------------------------|-------------------------------|---|-----------------------------|--|----------------|---|---------------------------------------|
| | _ | | | Rating class and limiting features | | | |
| 54: | | | | | | | 1 |
| | | Depth to Saturated zone Frost action Flooding | 1.00 1.00 1.00 | Depth to saturated zone Flooding Too clayey | 1.00 | Flooding | 11.00 |
| | | • | 1.00 1.00 | | | | |
| 54+: Zook | - 100 | Very limited | | Very limited | | Very limited | |
| | | Frost action Flooding Low strength | 11.00 | saturated zone Flooding Too clayey | İ | Flooding | 1.00 0.60 |
| 55A: Nicollet | - 95 | Frost action Low strength | 11.00 | ! | 0.73 | Not limited | |
| 62C2: | į | | | | İ | | į |
| | - 100 | Somewhat limited Frost action | 0.50 | | | Not limited | |
| 62D2: Storden | - 100 | • | 0.63 0.50 | Slope | 0.63 | Somewhat limited Slope | 0.63 |
| 62E2: Storden | - 100 | Slope | | Slope | | Very limited Slope | 1 1.00 |
| 62F2: Storden | - 100 | Slope | 1 1.00 10.50 | = | | Very limited Slope | 1 1 1 1 1 1 1 1 1 1 |

Building Site Development

| Map symbol and soil name | Pct. of map unit | streets | ıd | Shallow excavati - - | ons | Lawns and landsca | aping |
|--------------------------|---|---|--|---|-------------------------|---|----------------------------------|
| | | | | Rating class and limiting features | | | |
| 65E2: Lindley | 100 | Slope Low strength Shrink-swell | | Slope | 1.00 | Very limited Slope | 1.00 |
| 65F2: Lindley | 100 | Slope Low strength Shrink-swell | | Slope | 1.00 | Very limited Slope | 11.00 |
| 65F3: Lindley | 100 | Slope Low strength | | | 1 1.00 | Very limited Slope | 11.00 |
| 65G2: Lindley | 100 | Slope Low strength Shrink-swell | | | 11.00 | Very limited Slope | 1 1.00 |
| 69D2: Clearfield | 100 | Frost action Low strength Shrink-swell Slope | 1.00 1.00 1.00 0.63 0.19 | Too clayey | 11.00 | Depth to saturated zone | 0.63 0.19 |
| 73D2: Salida | 100 | Somewhat limited Slope | | Somewhat limited Slope | 0.37 | Very limited Droughty Slope | 1.00 0.37 |

Building Site Development

| Map symbol and soil name | | ± | | Shallow excavati | ons | Lawns and landsca | aping |
|--------------------------|-------------------|---|---------------|---|---------------|---------------------------------------|---------------|
| | _ _ | - | | Rating class and limiting features | | | |
| 76A: | | | | | | I I | |
| Ladoga | ·- 100 | Very limited Low strength | 11.00 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| | į | | 0.50 | İ | į Į | | į Į |
| 76B: | | Vom: limited | | | | Not limited | |
| Ladoga | | Low strength | | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| | į | Shrink-swell Frost action | 0.50 | İ | ! | | į |
| 76C: | | Very limited | | Somewhat limited | | Not limited | |
| Ladoga | | Low strength | 11.00 | | 0.15 | • | |
| | | Shrink-swell Frost action | 0.50 0.50 | • | <u> </u> | | |
| 76C2: | | | | | | | |
| Ladoga | | Low strength | | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| | i I | Shrink-swell Frost action | 0.50 | İ | i I | | i I |
| 76D: | | | | | | | |
| Ladoga | | Very limited Low strength Slope | 11.00 | Somewhat limited Slope Depth to saturated zone | 0.63 0.15 | • | 0.63 |
| | į | Shrink-swell Frost action | 0.50 | Ì | | | <u> </u> |
| 76D2: | | | | - | | Somewhat limited | |
| Ladoga | | Very limited Low strength Slope | 1.00 0.63 | · ± | 0.63 0.15 | Slope | 0.63 |
| | | Shrink-swell Frost action | 0.50 | İ | | | |

Building Site Development

| Map symbol and soil name | Pct. of map unit | streets | d | Shallow excavati | ons | Lawns and landscaping | |
|-----------------------------|-------------------------------|---|---------------|--|---------------------|-------------------------------------|-----------|
| | | | | Rating class and limiting features | | | |
| 76E2: | | | | | | | |
| Ladoga | - 100 | | 11.00 | Slope | 1.00 0.15 | • | 11.00 |
| | | | 0.50 | | | | |
| 80B: | | | | | | | |
| Clinton | - 100 | Low strength | 11.00 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| | | ' | 10.50 | • | | | |
| 80C2: | | | | | | | |
| Clinton | - 100 | - | 11.00 | | 0.15 | Not limited | |
| | į Į | Shrink-swell Frost action | 0.50 0.50 | • | İ İ | - | İ |
| 80D2: | | | | | | | |
| Clinton | - 100 | Very limited Low strength Slope | 11.00 | | 0.63 0.15 | • | 10.63 |
| | | | 0.50 | | | | |
| 80D3: Clinton | 1 | | | Somewhat limited | | Somewhat limited | |
| CITITOII | | · | 11.00 | Slope | 0.63 0.15 | Slope | 0.63 |
| | | Shrink-swell Frost action | 0.50 | İ | | | |
| 88: Nevin | - 95 | · | | Very limited Depth to | 0.95 | Not limited | |
| | | Low strength | 11.00 | saturated zone | | | |
| | | Shrink-swell | 0.50 | | | | |

Building Site Development

| and soil name | Pct. of map unit | streets | d | Shallow excavati - - | ons. | Lawns and landsca | aping |
|-----------------|-------------------------------|---|------------------------|---|-------------------------|---------------------------------------|---------------------------------------|
| | | = | | Rating class and limiting features | | = | |
| 93D2: | | | | | 1 | | 1 |
| Shelby | 60 | Low strength Slope | 11.00 | Depth to saturated zone | 0.63 0.16 | Slope | 0.63 |
| | | Frost action | 10.50 | | 1 | | 1 |
| Adair | 35 | Very limited Frost action | 11.00 | Very limited Depth to saturated zone | 11.00 | Somewhat limited Slope | 0.63 |
| | | Shrink-swell | İ | Slope | İ | Depth to saturated zone | 0.19 |
| | | Slope | 1.00 0.63 0.19 | İ | 0.41 | | |
| 93D3: | | | | | | | |
| Shelby | 60 | | 11.00 | Somewhat limited Slope Depth to saturated zone | 0.63 0.16 | - | 0.63 |
| | | • | 0.50 | • | | | |
| Adair | 35 | Very limited Frost action | 1.00 | Very limited Depth to saturated zone | | Somewhat limited Slope | 10.63 |
| | į | Shrink-swell | 11.00 | | | Depth to | 0.19 |
| | | | 1.00 0.63 0.19 | İ | 0.41 | saturated zone | |
| 93E2: Shelby | 60 | Slope | 11.00 | Depth to | 1.00 0.16 | | 1 1 1 1 1 1 1 1 1 1 |
| | | | 0.50 0.50 | | | | |

Building Site Development

| and soil name | Pct. of map unit | streets | d | Shallow excavati | ons. | Lawns and landsca | aping |
|-----------------|-------------------------------|--|---|---|---------------|--|----------------------------------|
| | | Rating class and limiting features | | | | | |
| Adair | | Frost action Shrink-swell Slope Low strength | 1.00 1.00 1.00 1.00 0.19 | Slope Depth to saturated zone Too clayey | 1.00 1.00 | • | 1.00 0.19 |
| 93E3: Shelby | 60 | Slope Low strength Shrink-swell | 1.00 1.00 0.50 0.50 | Slope Depth to saturated zone | 11.00 | Very limited Slope | 11.00 |
| Adair | | Frost action Shrink-swell Slope Low strength | 1.00 1.00 1.00 1.00 0.19 | Slope Depth to saturated zone Too clayey | 11.00 | | 1.00 0.19 |
| 95: Harps | | Depth to saturated zone Frost action Low strength | 1.00 | Depth to saturated zone | 11.00 | Very limited Depth to saturated zone | 1.00 |
| 107: Webster | | Depth to saturated zone Frost action Low strength | 1.00 | Depth to saturated zone | 11.00 | Very limited Depth to saturated zone | 1.00 |
| 108A: Wadena | 100 | Not limited | | Very limited cutbanks cave | 0.90 | Not limited | |

Guthrie County, Iowa

| Map symbol and soil name | Pct. of map unit | streets | | Shallow excavati | ons | Lawns and landsca | aping |
|--------------------------|-------------------------------|--|------------|--|---------------------|---|------------------------------|
| | | Rating class and limiting features | | | | | |
| 108B: Wadena | 100 | Not limited | | Very limited cutbanks cave | 0.90 | Not limited | |
| 108C2: Wadena | 100 | Not limited | | Very limited cutbanks cave | 0.90 | Not limited | |
| 133A: Colo | | Depth to saturated zone Frost action Flooding Low strength | 1.00 | saturated zone Flooding | 1.00 | Very limited Depth to saturated zone Flooding | 11.00 |
| 133A+: Colo | | Depth to saturated zone Frost action Flooding Low strength | 1.00 | Depth to saturated zone Flooding | 1.00 | Very limited Depth to saturated zone Flooding | 1.00 0.60 |
| 133B: Colo | | Depth to saturated zone Frost action Low strength | 1.00 | Depth to saturated zone | 11.00 | Very limited Depth to saturated zone | 1 1.00 |
| 133B+: Colo | | Depth to saturated zone Frost action Low strength | 1.00 | Depth to saturated zone | 11.00 | Very limited Depth to saturated zone | 1 1.00 |
| 138B: Clarion | - 100 | Somewhat limited Frost action | 1 1 1 0.50 | • | | Not limited | |

Building Site Development

| Map symbol and soil name | Pct. of map unit | streets | d | Shallow excavati | ons | Lawns and landsca | aping |
|--------------------------|-----------------------------------|--|---------------|---|---------------|---|------------------------------|
| | | | | Rating class and limiting features | | | |
| 138B2: Clarion | | Somewhat limited Frost action | | Not limited | | Not limited | |
| 138C: Clarion | | Somewhat limited Frost action | | | | Not limited | |
| 138C2: Clarion | | Somewhat limited Frost action | | | | Not limited | |
| 138D2: Clarion | - 100 | | 0.63 | Slope | | Somewhat limited Slope | 0.63 |
| 138E: Clarion | - 100 | Slope | | Slope | | Very limited Slope | 1 1.00 |
| 179D2: Gara | - 100 | Low strength Slope Shrink-swell | 11.00 | Depth to saturated zone | 0.63 0.16 | Slope | 0.63 |
| 179E2: Gara | - 100 | Slope Low strength Shrink-swell | 1.00 1.00 | Slope Depth to saturated zone | 1.00 0.16 | Very limited Slope | 1.00 |
| 179F2: Gara | - 100 | Slope Low strength Shrink-swell | 1.00 1.00 | Slope Depth to saturated zone | 1.00 0.16 | Very limited Slope | 1.00 |

Guthrie County, Iowa

| ± ± | Pct. of map unit | streets | d | Shallow excavati | ons | Lawns and landsca | aping |
|-----------------|---------------------------------------|--|---|---|-------|---|-----------|
| | | Rating class and limiting features | | | | | |
| 179G2: Gara | 100 | Slope Low strength Shrink-swell | 1.00 1.00 0.50 | Slope Depth to saturated zone | | Very limited Slope | 1 1.00 |
| 192D2: Adair | 100 | | 0.50 | Very limited | | Somewhat limited | |
| | | Frost action | 1.00 | | 11.00 | Slope | 0.63 |
| | | Low strength | 1.00 0.63 0.19 | Too clayey | | saturated zone | |
| 192E2: Adair | | Frost action Shrink-swell Slope Low strength | 1.00 1.00 1.00 1.00 0.19 | Slope Depth to saturated zone Too clayey | 11.00 | • | 1.00 |
| 192E3: Adair | 100 | Frost action Shrink-swell Slope Low strength | 1.00 1.00 1.00 1.00 0.19 | Slope Depth to saturated zone Too clayey | 11.00 | | 1.00 |
| 201B: Olmitz | 50 | Low strength Shrink-swell | 11.00 | saturated zone | 0.16 | Not limited | |

Building Site Development

| and soil name | Pct. of map unit | f streets p | | Shallow excavati | ons | Lawns and landscaping | |
|--------------------|--|--|---|---|------------------------------------|--|-----------------------------------|
| | | Rating class and limiting features | | Rating class and limiting features | | Rating class and limiting features | |
| Colo | 30 | Very limited Depth to saturated zone Frost action | | saturated zone | 1.00 0.80 | İ | 1.00 1.00 |
| | | | 1.00 1.00 0.50 | | | | |
| 203: Cylinder | 95 | Very limited Frost action Shrink-swell Low strength | 1.00 0.50 0.22 | saturated zone | 0.95 | Not limited | |
| 212: Kennebec | 95 | Frost action Flooding Low strength | 1.00 1.00 1.00 0.50 | saturated zone Flooding | | Somewhat limited Flooding | 1 1 1 0.60 |
| 220: Nodaway | 95 | Very limited Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 0.50 | saturated zone Flooding | 0.61 0.60 | Somewhat limited Flooding | 0.60 |
| 222C2: Clarinda | 100 100 | Frost action Low strength Shrink-swell | 1.00 1.00 1.00 0.19 | saturated zone Too clayey | 1.00 1.00 0.50 | saturated zone | 0.19 |

Building Site Development

| and soil name of map | Pct. of map unit | streets | d | Shallow excavati | ons | Lawns and landsca | scaping | |
|-------------------------|-------------------------------|--|----------------------------------|--|---------------------|---|------------------------------|--|
| | | | | Rating class and limiting features | | | | |
| 222D2: | -¦ | ' | · | | ¦ | ' | - | |
| Clarinda | - 100 | | 1.00 | Very limited Depth to saturated zone | 11.00 | Somewhat limited Slope | 0.63 | |
| | | Low strength | | Slope | • | Depth to | 0.19 | |
| | | Slope | 0.63 0.19 | | 0.50 | • | | |
| 236B: Lester | | Low strength Shrink-swell | 1.00 0.50 0.50 | Ì | | Not limited | | |
| 236C2: Lester | | Low strength Shrink-swell | 1.00 0.50 0.50 | Ì | | Not limited | | |
| 236D2: Lester | - 100 | Low strength Slope Shrink-swell | | | | Somewhat limited Slope | 0.63 | |
| 269: Humeston | | Depth to Saturated zone Frost action Flooding | 11.00 | | 1.00 | Very limited Depth to saturated zone Flooding | 1.00 0.60 | |
| 273B: Olmitz | - 100 | Very limited Low strength Shrink-swell | 11.00 | Somewhat limited Depth to saturated zone | 0.16 | | | |

Building Site Development

| and soil name of map | Pct. of map unit | streets | d | Shallow excavati | ons | Lawns and landsca | ping | |
|--------------------------|---|---|--|--|--|---|----------------------------------|--|
| | | | | Rating class and limiting features | | - | | |
| 273C: Olmitz | - 100 | Low strength Shrink-swell | 1 | saturated zone | 0.16 | Not limited | | |
| 308A: Wadena | - 100 | Not limited | | Very limited cutbanks cave | 1 0.90 | Not limited | | |
| 308B: Wadena | - 100 | Not limited | | Very limited cutbanks cave | 0.90 | Not limited | | |
| 308C: Wadena | - 100 | | 0.16 | Very limited cutbanks cave Slope | 0.90 0.16 | | 0.16 | |
| 313E2: Gosport | - 100 | Low strength Shrink-swell Slope Frost action | 1.00 1.00 0.96 0.50 0.03 | saturated zone Slope Depth to soft bedrock Too clayey | 1.00 0.96 0.46 0.32 | Depth to bedrock Depth to saturated zone | 0.96 | |
| 313F2: Gosport | - 100 | Slope Low strength Shrink-swell | 1.00 1.00 1.00 1.00 0.50 0.03 | Depth to saturated zone Depth to soft bedrock Too clayey | 1.00 1.00 | Depth to bedrock Depth to saturated zone | 1.00 0.46 0.03 | |
| 315: Alluvial Land | - 90 | Not rated | | Not rated | | Not rated | | |

Building Site Development

| and soil name of map | Pct. of map unit | streets | | Shallow excavati - | ons | Lawns and landsca - | dscaping | |
|-------------------------|-------------------------------|---|-------------------|--|---------------|-------------------------------------|----------|--|
| | | Rating class and limiting features | | Rating class and limiting features | | | | |
| 318F: Clanton | 100 1 | Slope Low strength Shrink-swell | 1.00 1.00 | Slope Depth to saturated zone Too clayey | 1.00 0.16 | i I | 1 1.00 | |
| 354: Marsh | 95 | | | Not rated | | Not rated | | |
| 368: Macksburg | | - Very limited Frost action - Low strength Shrink-swell | | Ī | 0.61 | | | |
| 370A: Sharpsburg | | | 1 1.00 | Somewhat limited Depth to saturated zone | 0.15 | | | |
| 370B: Sharpsburg | 100 | - Very limited Frost action Shrink-swell | 11.00 | saturated zone | 0.15 | Not limited | | |
| 370C: Sharpsburg | | Frost action | 11.00 | Somewhat limited Depth to saturated zone | 0.15 | | | |
| 370C2: Sharpsburg | | Very limited Frost action | 11.00 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | | |
| | | | 1.00 0.50 | • | | | | |

Building Site Development

| Map symbol and soil name | of map | Pct. Local roads and of streets map unit | | Shallow excavati | Lawns and landscaping | | |
|--------------------------|--------------------------|---|-------------------|--|------------------------|------------|-----------------------------|
| | _ | | | Rating class and limiting features | | | |
| 370D: | | | | 1 | | | |
| Sharpsburg | - 100 | | 11.00 | Depth to saturated zone | 0.63 0.15 | Slope | 0.63 |
| 370D2: | | | | | | | |
| Sharpsburg | | Frost action | 11.00 | | 0.63 | | 0.63 |
| | | | 0.63 0.50 | • | | | |
| 370E2: | | | | | | | 1 |
| Sharpsburg | - 100 | Frost action | 1.00 1.00 | Very limited Slope Depth to saturated zone | 11.00 | | 11.00 |
| | İ | Slope Shrink-swell | 11.00 | İ | | | |
| 415D: | | | | | | | |
| Montieth | - 100 | Slope | | | | Slope | 0.81 0.63 0.26 |
| 415E: | | , | | | | , | į |
| Montieth | | Slope | | Very limited Slope cutbanks cave Depth to soft bedrock | | Droughty | 1.00 0.81 0.26 |
| 415F: Montieth | - 100 | | | Very limited | | | |
| | | Slope Frost action | 1.00 0.50 | Slope cutbanks cave Depth to soft bedrock | 1.00 0.90 0.26 | Droughty | 1.00 0.81 0.26 |

Building Site Development

| Map symbol and soil name | of map | Pct. Local roads and of streets map unit | | Shallow excavati | Lawns and landscaping | | |
|--------------------------|----------------------------------|---|-------|---|----------------------------------|---|-------------------------|
| | _ | | | Rating class and limiting features | | | |
| 416E: Hesch | - 100 | Slope | 0.96 | Slope cutbanks cave | 0.96 0.90 0.46 | Depth to bedrock | 0.96 0.46 |
| 417D: Hesch | - 100 | Slope | | Slope | | Depth to bedrock | 0.63 0.46 |
| 417E: Hesch | - 100 | Slope | | Slope cutbanks cave | 1.00 0.90 0.46 | Depth to bedrock | 1.00 0.46 |
| 428B: Ely | - 95 | Frost action Low strength | | Depth to saturated zone | 0.95 | Not limited | |
| 485A: Spillville | 95 | Flooding Low strength Shrink-swell | 11.00 | saturated zone Flooding | | Somewhat limited Flooding | 0.60 |
| 507: Canisteo | - 95 | Depth to saturated zone | 11.00 | Depth to saturated zone | | Very limited Depth to saturated zone | 1.00 |

Guthrie County, Iowa

| and soil name | Pct. of map unit | streets | ıd | Shallow excavati | ons | Lawns and landsca | aping |
|---------------------|-------------------------------|--|-------|---|-------------------------|---|--------------------------|
| | | - | | Rating class and limiting features | | = | |
| 585B: | | | | | 1 | | |
| | 60 | Depth to saturated zone Frost action Low strength | 11.00 | Depth to saturated zone | 11.00 | Very limited Depth to saturated zone | 11.00 |
| Spillville | 30 | Very limited Low strength Shrink-swell Frost action | 11.00 | saturated zone | 0.61 | Not limited | |
| 615B: | | | | | | | |
| Colo | 60 | Depth to saturated zone | 11.00 | Depth to saturated zone | 11.00 | Very limited Depth to saturated zone | 1.00 |
| Spillville | 30 | Very limited Low strength Shrink-swell Frost action | | • | 0.61 | Not limited | |
| 675C2: | | | | | | | |
| Dickinson | | Somewhat limited Frost action | | | 10.90 | Not limited | |
| Sharpsburg | 30 | Very limited Frost action Low strength Shrink-swell | | • | 0.15 | Not limited | |
| 675D2: Dickinson | 50 | Slope | 0.63 | Very limited cutbanks cave Slope | 0.90 0.63 | • | 0.63 |

Building Site Development

| and soil name | Pct. of map unit | streets | Shallow excavations | | Lawns and landscaping | | |
|-----------------------|---------------------------------------|--|---|--|---|--|---------------------------------------|
| | | | | Rating class and limiting features | | - | Value |
| Sharpsburg | 40 | Frost action Low strength Slope | 1.00 1.00 0.63 | Depth to saturated zone | 0.63 0.15 | • | 0.63 |
| 733: Calco | 100 | Shrink-swell Very limited | 0.50 | Very limited | | Very limited | |
| | | saturated zone Frost action Flooding Low strength | 1.00 1.00 1.00 1.00 | | 1.00 0.60 | Depth to saturated zone Flooding | 1.00 0.60 |
| 822D2: Lamoni 10 | 100 | Very limited Low strength | 1.00 | Very limited Depth to saturated zone | 11.00 | Somewhat limited Slope | 1 0.63 |
| | | Frost action | 1.00 0.63 0.50 0.19 | Slope Too clayey | 0.63 0.08 | saturated zone | 0.19 |
| 822E2: Lamoni | 100 | Low strength Shrink-swell Slope Frost action | 1.00 1.00 1.00 0.50 0.19 | Depth to saturated zone Too clayey | 1.00 1.00 1.00 0.08 | Depth to saturated zone | 1.00 0.19 |
| 993E2: Gara | | Low strength Shrink-swell | 1.00 1.00 1.00 0.50 0.50 | Depth to saturated zone | 1.00 0.16 | Very limited Slope | 1.00 |

Guthrie County, Iowa

| and soil name | Pct. Local roads and of streets map unit | | Shallow excavati | Shallow excavations | | ping | |
|----------------------|---|---|----------------------------------|---|-----------------------------------|--|------------------------------------|
| | | - | | Rating class and limiting features | | = | |
| Armstrong | 30 30 | Frost action Low strength Shrink-swell Slope | 11.00 | Slope Depth to saturated zone Too clayey | 11.00 | | 1.00 0.19 |
| C133A: Colo | 95 | Depth to saturated zone Frost action Flooding Low strength | 1.00 | Depth to saturated zone Flooding | 1.00 | Very limited Flooding Depth to saturated zone | 1.00 |
| C220: Nodaway | 90 | Frost action Flooding Low strength | | Flooding Depth to saturated zone | 0.80 0.61 | = | 1.00 |
| T9B: Marshall | 100 | Frost action Low strength | 1.00 1.00 0.50 | Ì | | Not limited | |
| T76B: Ladoga | 100 | Low strength | | Depth to saturated zone | 0.15 | Not limited | |
| T370B: Sharpsburg | 100 100 | Frost action Low strength | 1.00 1.00 0.50 | saturated zone | 0.15 | Not limited | |

Guthrie County, Iowa

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| Map symbol | Pct. | Local roads an | d | Shallow excavati | Shallow excavations | | aping |
| and soil name | of | streets | | | | | |
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